



PARMEKO LIMITED

PERCY ROAD · AYLESTONE PARK · LEICESTER

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YOUR REFERENCE

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DATE

RAH/MDY/954

17th February 1965

Mr. T. H. Nelson, Syst Eng.,
Interlocking Systems Co.,
Box 1546,
Poughkeepsie,
NEW YORK 12603,
U.S.A.

Dear Sirs,

We understand from the Reader Enquiry Service of
the publication Electronic Products that you are interested
in our Contactless Switch.

Accordingly we have pleasure in sending you a copy
of our List No. 840 giving general information relating to those
products and would be pleased to submit any further information you
may require.

Thanking you for your interest.

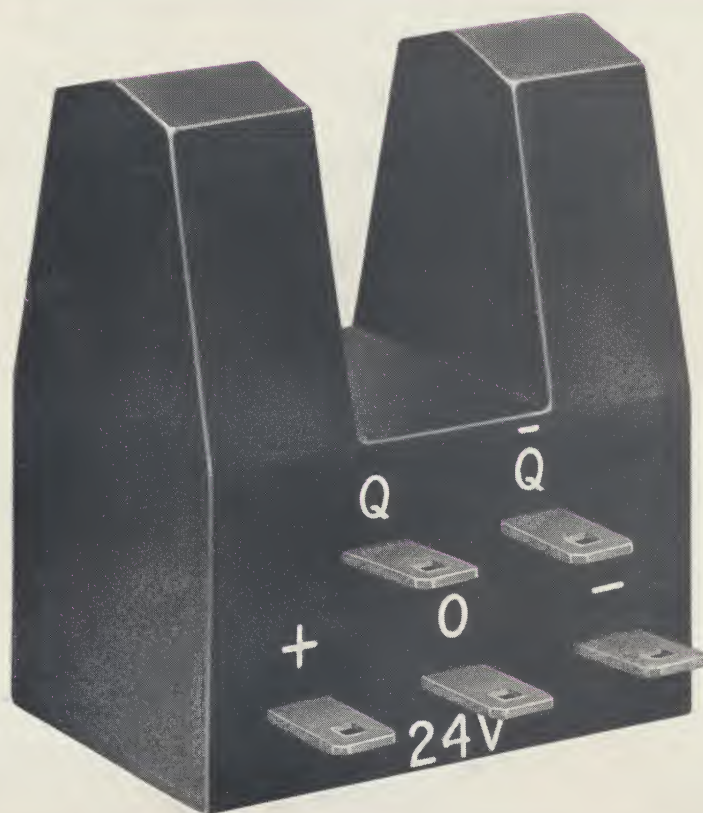
We are,

Yours faithfully,
for PARMEKO LIMITED.

R. A. Hall.
Sales Department.

Enc:

DIRECTORS: CHARLES CLORE (CHAIRMAN) WILLIAM BENTLEY, M.B.E., M.I.MECH.E., M.I.P.E. R.W. FENMORE, M.B.E., B.SC. (ENG) A.M.I.E.E. (MANAGING) J.C. GARDINER, F.C.A.
J. GRIMBLEY, A.M.I.E.E. LEONARD SAINER J.D. SUTTON, D.S.O. J.H.A. WESTROPP



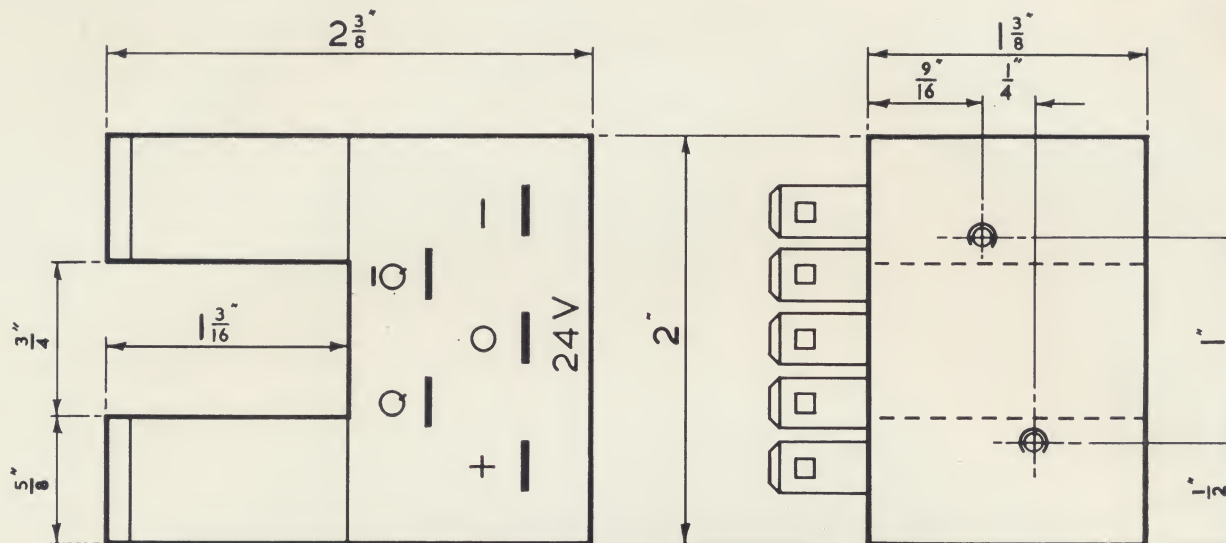
The Parmeko Contactless Switch has been primarily designed for use with any static switching system having a positive and negative 24V D.C. supply. No actual mechanical or electrical contact is involved, the switch being actuated by any metallic substance, ferrous or non-ferrous, having a minimum surface area of 1 square inch. The switch operates when this material is situated in the gap between the two arms.

The unit is suitable for most control functions at present performed by photo-electric, limit and proximity switches and has the added advantage that it is not influenced by oil or dirt deposits.

When operated in banks, a magnetic screen is necessary between adjacent units to prevent interaction.

The switch, being resin encapsulated, is of robust construction and is suitable for work in ambient temperatures up to 45°C.

DIMENSIONS



FIXING DETAILS: 2 Fixing holes 4BA. Care must be taken to ensure that fixing screws do not penetrate more than $\frac{1}{4}$ ".

SPECIFICATION: Maximum working temperature: 45°C.
Minimum actuating surface: 1 inch square.
Supply: —24V at 20mA D.C.

0
+24V at 7.5mA D.C.

OUTPUTS:

Q

1 —8.2V
0 +0.2V

$\bar{Q}$

1 —0.1V
0 —8.2V

into 2.5K Ω

APPLICATION: The P3038 is intended to replace conventional moving contact input devices in static switching systems. It may be used in a variety of ways and has a number of distinct advantages over other systems as it does not produce the contact bounce which is a characteristic of all moving contact devices and it is impervious to dirt or all oil deposits. In addition, as there are no moving parts, it has an unlimited operating life and requires no maintenance.

It may be used:—

To replace cam-operated microswitches in sequence controllers, a shaft mounted vane operating the P3038.

As a limit switch on machine tools, the switch being operated by a vane on the table.

As a decking switch on a lift control system. The P3038 being operated either by a vane attached to limit switch type mechanisms or directly by a vane on the carrier.

For code recognition. Two or more vanes in a group on the same line of motion will simultaneously operate switches with the same spacings. Spacings can thus be varied to provide a code pattern which will give simultaneous operation of a corresponding number of P3038 units only if they are correctly spaced.

For digital speed measurements. By use of a vane on a shaft a hundred pulses per second limit will give a maximum speed of 3,000 r.p.m. with a balanced (2 pole) vane, or 6,000 r.p.m. if a single (unbalanced) vane is used.

As an interlocking switch to ensure that, say, an automatic loader does not operate until the carrier is in position. Loading control circuits are locked out until the vane on the carrier enters the switch.

In addition to its use in static switching systems the P3038 can also be used anywhere where it is desirable to reduce shaft loading or where any of its other advantages are a necessity. For such applications a separate Power Unit, Amplifier and Output Relay can be provided.